



D.D.DeMasi, Sr.
1216 Beekman Road
Hopewell Junction, NY 12533
(845) 227-5387
(845) 227-7312

March 2, 2004

DECLARATION, SPECIFICATIONS and PETITION

I, Douglas D. DeMasi, declare that I am a citizen of the United States of America residing at 1216 Beekman Road, Hopewell Junction, New York 12533. That I have read the foregoing specifications and claims and I verify, believe, I am the original, first and sole inventor of the invention or discovery in the Prefolded extended full flanged with many tacks built-in the paper, or self-adhesive double sided tape end with built-in extensions described and claimed herein. That I do not know and I do not believe that this invention was ever known or used before my invention or discovery thereof, or patented or described in any printed publication in any country before my invention or discovery thereof, or more than one year prior to this application or in public use or on sale in the untied states for more than one year prior to this application. "That this invention or discovery has not been patented in any country foreign to the United States on the application filed by me or assigned more than 123 months before this application." And that no application for patent on this invention or discovery has been filed by me or by my representatives or assigns in any country foreign to the United Sates.

Further, that I acknowledge I have duty to disclose to the Patent and Trademark Office information that I am aware of and this material to the examiner of the application in accordance with, 37 CFR 156 "A".

WHEREFORE, I pray that letters patented be granted to me with the invention or discovery described and claimed in the foregoing specifications and claims, and I hereby subscribe my name to the foregoing specifications and claims, declaration and this petition.

The undersigned petitioner declares further that all statements made herein of his own knowledge are true and that all statements made on this information and belief are believed to be true. And further, that these statements were made within the knowledge that willfully false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued hereon.

Inventor's Full Name:

Signature:

Date:

Douglas D. DeMasi
1216 Beekman Road
Hopewell Junction, NY 12533

Douglas D. DeMasi

March 2, 2004

D.D.DeMasi, Sr.
1216 Beekman Road
Hopewell Junction, NY 12533
(845) 227-5387
(845) 227-7312

Pre-Folded Extended Full Flanged with many tacks built-in the paper or self-adhesive double
sided tape end with built-in extensions

Abstract

Installing insulation over the years hasn't really changed that much.

We are all aware of using the spring wire, then nailing on the staple gun. There are now the so called pressure sensitive adhesive lateral flanges.

But I find still installing insulation is still a very hard and slow moving job, even when staples or nails are no longer needed. Claims 35 – 2 drawing sheet

Related U.S. Applications Data

Reference Cited United States Patent

6,579,586	Fay, Blalock	6-17-2003
6,221,464	Patel, Schmitt, Heffelinger	4-24-2001
5,421,133	Berden, Shaffer, Stort	6-6-1995
4,709,523	Broderick, Algrim, Hayden	12-1-1987
3,719,879	Franklin	5-1-1973
3,307,306	Oliver	3-7-1967
3,121,649	Oliver	2-18-1964

Claims

What is claimed.

- 1) A rolled or batt insulation material with paper facing Fig. 1.
- 2) The batt insulation clearly showing vertical and horizontal elastic pre-folded self-adhesive tape end with built in extensions. Fig. 1-A.
- 3) The horizontal flange marker the start of hanging the insulation faster. Fig. 1-B.
- 4) Even when the insulation bays are uneven, which is very common in renovations one worker can still install easily starting from the top flange Fig. 1-B.
- 5) If the insulation bay is uneven, the worker would start from the top and place the Insulation to one side or the other for a tight fit, then the worker would fill in the other side with insulation to fill in the empty gap. Then the worker would use the elastic extended flap to cover the insulation for a tight fit. Fig.1-C.
- 6) Showing the batt face insulation with pre-measuring marks on, so there is no need for a measuring tape. Fig. 2-A.
- 7) The rolled insulation, Fig. 3 clearly shows pre-measuring marks for every eight feet on the paper face. Fig.3-A.
- 8) Fig. 2 has all four flaps open and against the wall. Fig.2-B.
- 9) The double sided adhesive tape shown with the flaps sealed against the paper face so to be installed in a crawl space with the other side being pushed up against the bottom side of the floor. Fig.4-A.
- 10) The extended flange works well when one would need extra space below or above preexisting plumbing, and wires. Fig. 5-A.
- 11) Reinforced paper prefolded, hanger straps, that have double sided adhesive tape end, which very easily go down and around the unfaced section of the insulation for a secure fit to the floor joist so the insulation won't fall down. Fig. 5-B.
- 12) Fig. 6 – shows indivisible self-adhesive tape end 6-A.
- 13) Fig. 6- the paper insulation holder that is not only extra wide so as to hold the insulation better, but is very strong and permanent. Fig. 6-B.
- 14) The insulation batts can be easily attached by the ends, so there is no open space to allow the loss of clean air ventilation or not to let heat or air conditioning escape, so there is no condensation build up. Fig. 2-B.

- 15) The folded insulation can be cut at any length and rejoined, because of the double adhesive tape end that can be retaped. Fig.3.
- 16) The extra heavy and reinforced paper hanger, can easily be removed from the batt or rolled insulation and reconnected for another application. Fig. 6-B.
- 17) If the worker tears a hole into the face of the insulation, you can easily tear or cut along the perforated lines on the extra wide flange to repair the rip in the face, so there is no energy loss or condensation build-up. Fig 2-C.
- 18) The paper hangers that are extra wide and heavy duty can be easily reversed from one side of the insulation to the other side. Fig 5-B.
- 19) The double sided self adhesive tape is water resistant, so if there is a build up of water condensation, one would not have to worry about the insulation flanges failing.
- 20) When the worker is installing the insulation it can be removed, if not at first properly in place.
- 21) Because of the extra wide, and extra strong flange, you are also able to encapsulate the insulation whether or not the batts are rolled, by simply folding all the corners and attaching them to each other.
- 22) Encapsulated insulation can be easily hung from its own paper hangers.
- 23) When the worker is installing the tack full flange, all he has to do is push in and the many little tacks that are in the full flange automatically stick to any wood surface. Fig. 7-A.
- 24) There is no need for any tools for a complete insulation, because the insulation bats and rolled insulation has measurement marks all ready on the paper face and the extended full flanges. Fig 8-A.
- 25) If the insulation bays are off and a little wider then should be, then all the worker has to do is stuff the one side with some more insulation to fill in the gap. Fig 10-A.
- 26) This type of full flange insulation with tack, will give a full and tight fit. Fig 7-A.
- 27) Unlike the so called Knauf Staple-Free Batt Insulation 8-5-2004- this is very unlikely this product would ever be used in unfinished basements, or crawl spaces, but for the same price, if not less, my invention, the full flange tack insulation can be installed and not have to worry about the batts or rolled insulation falling down. Fig. 11-A.
- 28) Simple engineering and common sense will prove how unreliable the Knauf-Staple Free Insulation is. It will fail. But with my full flange tack insulation being installed,

there is constant horizontal pressure push against many small tacks all ways. Fig 12-A.

- 29) One in the profession would just look and see how much more work can be done in a shorter amount of time and completely safe for the installer that's using good gloves. Fig. 9A.
- 30) The full flange tacks stay within the paper flange until installed, by the installer simply pushing forward, the sides automatically push through the paper and into the wood studs, floor joists, roof rafters or the roof truss. Fig. 13-A.
- 31) There is no need for any other insulation support.
- 32) This full flange tack insulation will not fall down when installing in a vertical wall, because the many tacks digging into the wood always never letting up, but common sense will tell me, simply because of constant gravity, the Knauf Staple-Free batts will fall down, simply because of the known open space between the 12-13 insulation and the open space using a 2x4 wall, with the constant pulling down of gravity. After a while there will be an open space at the top of the wall, and there will be a water condensation problem. Fig 14-A. 12-13
- 33) The fraction of a cent to install the full flange tack insulation will add dollars of savings for man hours.
- 34) No way to tear the paper face to cause a loss of the vapor barrier, that's so important. Fig. 14-A.
- 35) If a mistake is made, all the worker has to do is to slide their gloves in between the stud, joist, rafter or truss and slightly push their hands together, and the insulation will come out, undamaged. Fig. 15-A.

Background of the Invention

This invention clearly shows how workman friendly it is when installing insulation. There are too many times when one is trying to install insulation and so many obstacles occur. Many new homes are being constructed leaving the framing being done by unskilled workers. If laying out the basic frame is not correct from the very start, that means all the framework will be off, even if it's off by a half inch, the insulation will not adhere properly, leaving the insulation company in very deep trouble on how to install insulation correctly, when the frame is not.

This is why my invention is so much better. The worker can move very quickly and not have to rely on a perfectly framed building nor does he have to be concerned with a measure tape, staple gun, cutting knife or other tools.

Then when you are renovating this invention will be even more of a pleasure to work with because the worker has extra freedom to work with in this product.

Brief Description of the Drawing

Fig. 1 - Showing the unfaced part of the insulation. The extra wide prefolded flange, and the double stick self adhesive tape ends.

Fig. 2- Shwoing the paper face side of the insulation, with the premeasured marks that are on the paper face, along with the insulation going inward.

Fig. 3 – rolled insulation, showing the premeasured marks going vertical, and horizontal, and every eight feet clearly marked.

Fig. 4 – the flanges are bent down and are of the double sided self adhesive tape end.

Fig. 5 – showing the flanges end up, note that the inside flanges still have the protected cover over the adhesive tape end so only one side of the flange is being used.

Fig. 6 – the extra wide, extra strong paper hanger, with the protected cover on the self-adhesive sides.

Fig. 7 – Fig. 8 shows the full flange and tacks the many tacks coming through the paper Fig. 8-B.

Fig. 7 – with the vertical wall studs and the full flanged tack insulation against the wall studs with constant pressure, never releasing, never losing its grip never falling down because of gravity pulling down all ways.

Fig. 10-A With a gap and filled in insulation to keep the entire wall insulated snug.

Fig. 9 – Good strong gloves, the only tool the worker will need. Fig. 9-A.

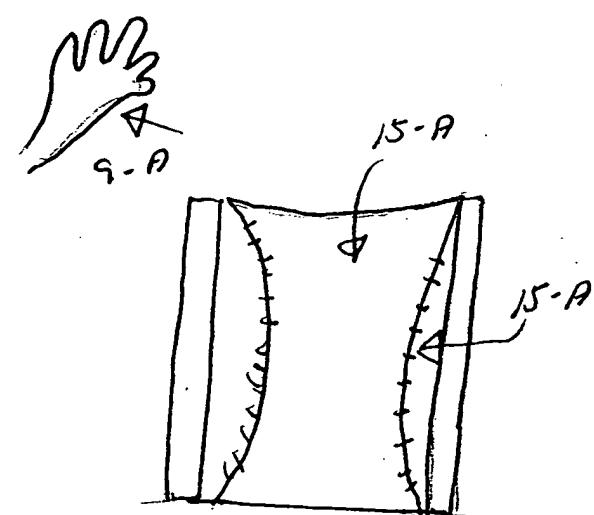
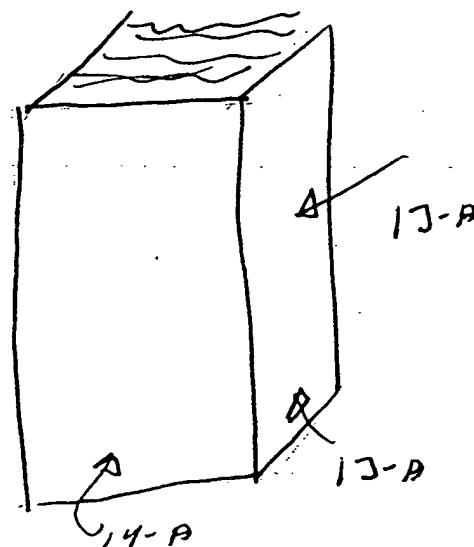
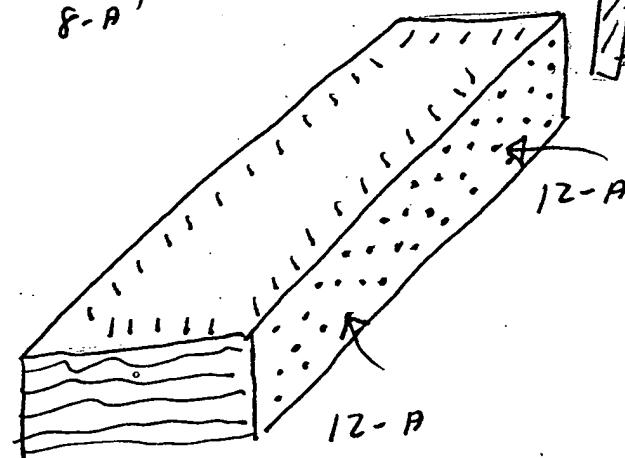
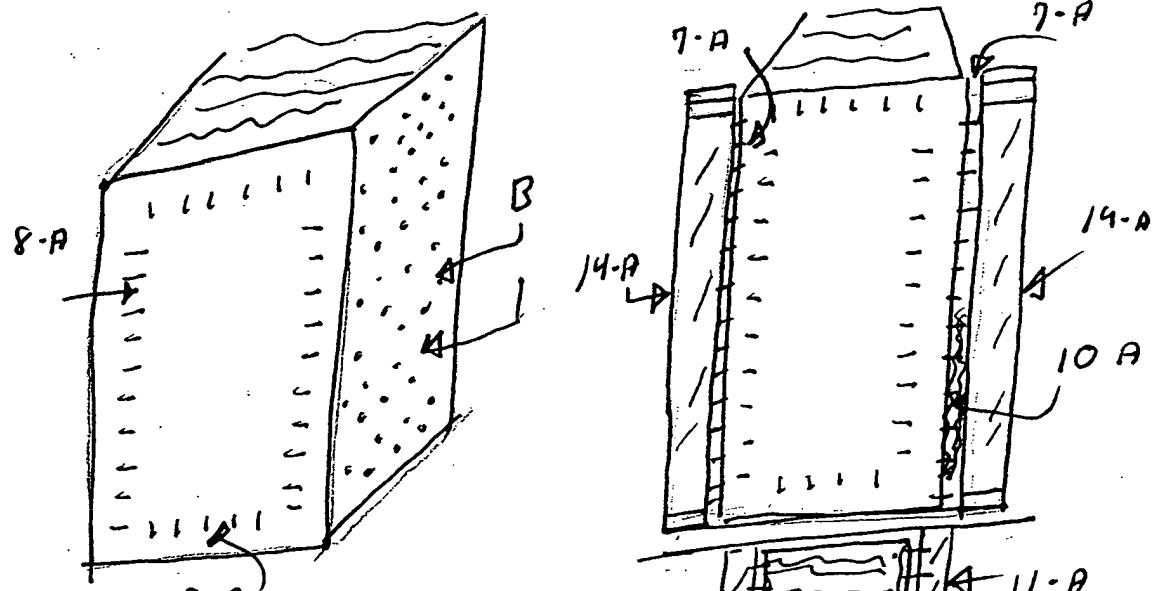
Fig. 11 – Horizontal floor joist with the paper face up against the floor bottom, clearly in place forever, because of the constant outward pushing force, always digging in to the wood sides, even with a constant pull down pressure form gravity. Fig. 11-A.

Rolled insulation showing the full flanged tacks through the paper sides. Fig. 12-A.

Fig 13 – Full flanged tack insulation still sealed, and the tacks are not through the paper. Fig. 13-A.

Vertical wall stud, that's being empailed by the many tacks that are through the full paper flanged with the constant pressure on them all the time. Fig. 14-A.

Figure 15 – showing the full flanged insulation being squeezed together so as not to be damaged, and you are able to reuse the full flanged tack insulation again.



BEST AVAILABLE COPY

Fig 1

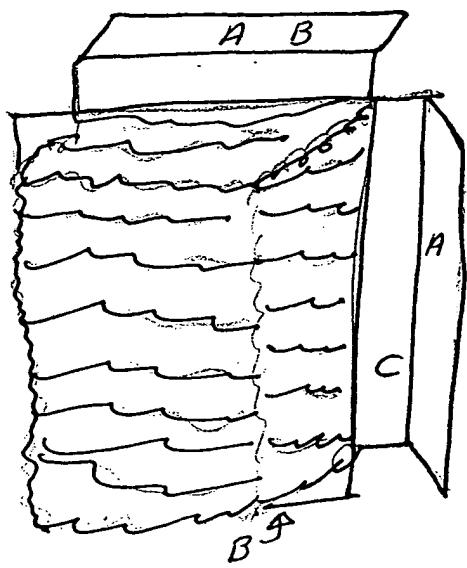


Fig 5

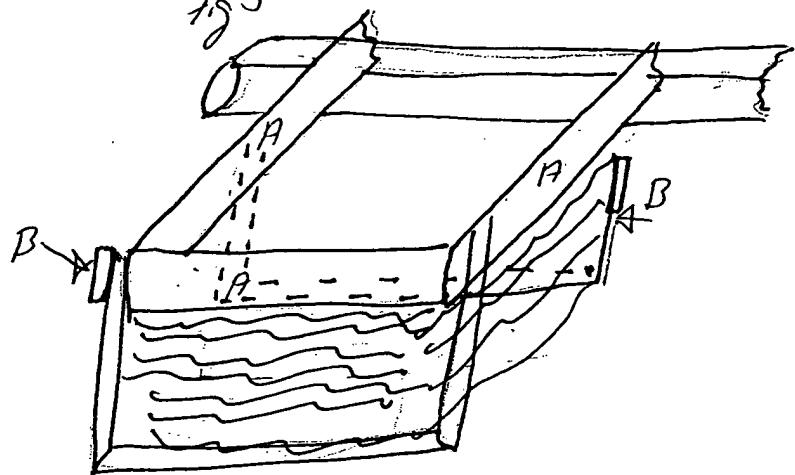


Fig 2

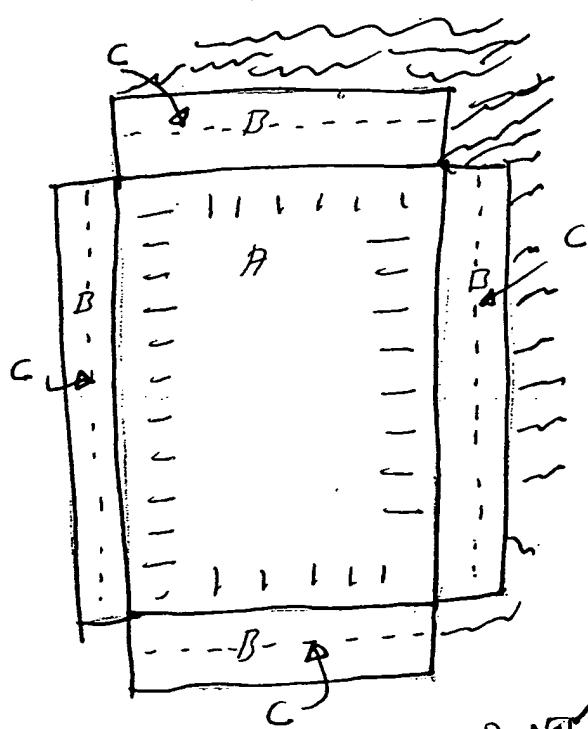


Fig 4

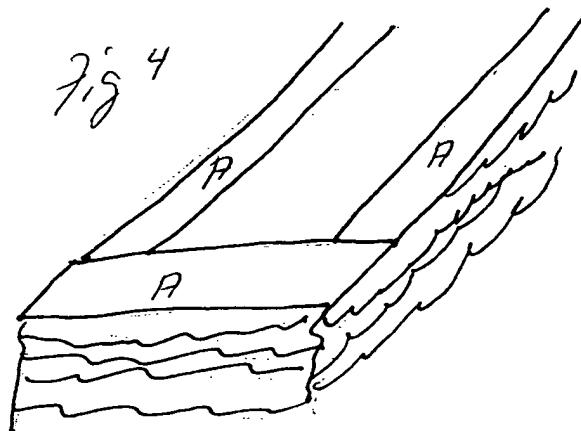


Fig 3

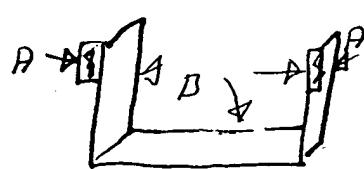
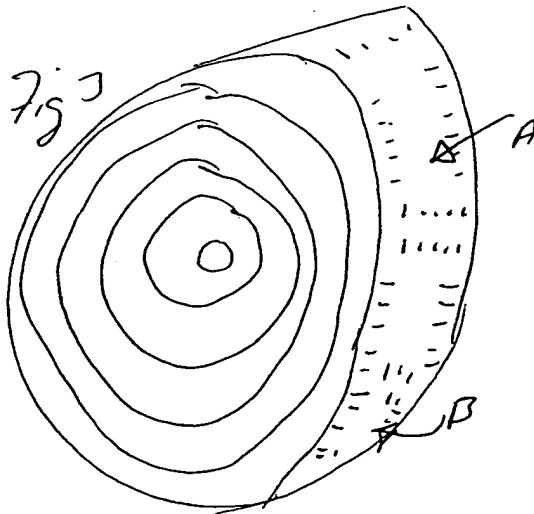


Fig 6

BEST AVAILABLE COPY